

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P893763

Luminaire Tested: 4MB-6SL-LVRF-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-LVRF-UNV-L840
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K C
Light Source: -
Ballast/Driver: -

Summary

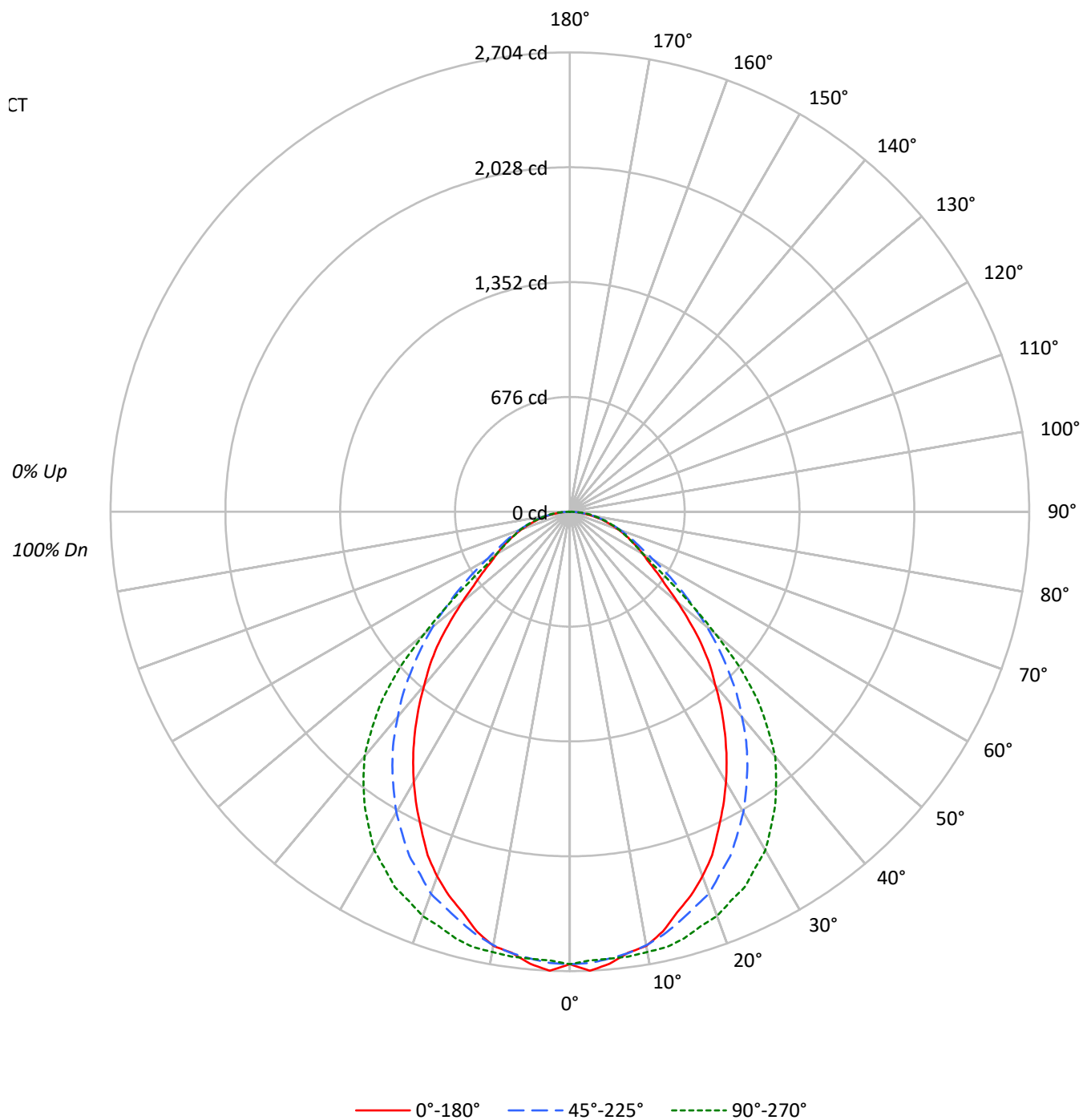
Lumens per Lamp: N/A
Luminaire Lumens: 5534.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83
3	94	84	77	71	91	83	76	70	80	74	69		77	72	68		75
4	87	76	68	62	84	74	67	61	72	66	60		70	64	60		68
5	80	68	60	54	78	67	60	54	65	59	53		63	58	53		62
6	75	62	54	48	73	61	54	48	60	53	48		58	52	47		56
7	69	57	49	43	68	56	48	43	55	48	43		53	47	42		52
8	65	52	44	39	63	52	44	39	50	44	39		49	43	38		48
9	61	48	41	35	60	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18945	18945	18945
5°	19077	18860	18860
10°	18748	18717	19008
15°	17972	18389	19144
20°	17288	18117	19175
25°	16218	17555	19132
30°	15096	16780	18907
35°	13819	15827	18305
40°	12372	14635	17465
45°	10979	13250	15702
50°	9135	11663	12384
55°	7781	9824	9001
60°	7054	8118	7114
65°	6643	7110	6620
70°	6251	6597	6453
75°	5825	6282	6166
80°	5335	5785	5958
85°	4637	5086	6670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 15702 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	4.6
10°-20°	709.4	12.8
20°-30°	1030.2	18.6
30°-40°	1147.1	20.7
40°-50°	1013.5	18.3
50°-60°	665.0	12.0
60°-70°	407.2	7.4
70°-80°	237.0	4.3
80°-90°	72.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1991.6	36.0
0°-40°	3138.8	56.7
0°-60°	4817.2	87.0
0°-90°	5534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2663	2663	2663	2663	2663	
5°	2671	2672	2641	2667	2641	252
15°	2440	2468	2496	2595	2599	688
25°	2066	2116	2236	2379	2437	951
35°	1591	1677	1822	2015	2108	992
45°	1091	1158	1317	1494	1560	835
55°	627	672	792	785	726	569
65°	395	402	422	410	393	392
75°	212	215	228	233	224	225
85°	57	60	62	71	82	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2662.7	2662.7	2662.7	2662.7	2662.7
2.5°	2704.2	2671.0	2658.6	2671.0	2643.3
5°	2671.0	2672.4	2640.6	2666.9	2640.6
7.5°	2618.4	2636.4	2621.2	2661.3	2640.6
10°	2594.9	2596.2	2590.7	2632.2	2630.9
12.5°	2529.8	2533.9	2549.2	2611.5	2625.3
15°	2439.8	2467.5	2496.5	2594.9	2599.0
17.5°	2369.2	2402.4	2441.2	2546.4	2558.9
20°	2283.3	2297.2	2392.7	2485.5	2532.5
22.5°	2187.8	2214.1	2306.8	2431.5	2478.5
25°	2065.9	2115.8	2236.2	2378.9	2437.0
27.5°	1953.8	2011.9	2136.5	2295.8	2363.6
30°	1837.4	1903.9	2042.4	2198.8	2301.3
32.5°	1717.0	1800.1	1931.6	2111.6	2201.6
35°	1591.0	1676.8	1822.2	2014.7	2107.5
37.5°	1465.0	1548.1	1705.9	1912.2	1995.3
40°	1332.0	1413.7	1575.7	1784.8	1880.4
42.5°	1217.1	1287.7	1453.9	1632.5	1721.1
45°	1091.1	1157.6	1316.8	1494.1	1560.5
47.5°	952.6	1030.2	1185.3	1330.7	1357.0
50°	825.3	905.6	1053.7	1138.2	1118.8
52.5°	713.1	781.0	916.6	952.6	907.0
55°	627.3	671.6	792.0	785.1	725.6
57.5°	548.3	576.0	678.5	639.7	582.9
60°	495.7	508.2	570.5	534.5	499.9
62.5°	445.9	451.4	484.6	465.2	438.9
65°	394.6	401.6	422.3	409.9	393.2
67.5°	347.6	350.3	369.7	366.9	346.2
70°	300.5	304.6	317.1	322.6	310.2
72.5°	254.8	258.9	271.4	276.9	265.9
75°	211.9	214.6	228.5	232.6	224.3
77.5°	170.3	175.9	184.2	191.1	181.4
80°	130.2	132.9	141.2	149.5	145.4
82.5°	91.4	95.5	101.1	112.2	114.9
85°	56.8	59.5	62.3	70.6	81.7
87.5°	22.2	23.5	27.7	30.5	40.2
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.75	19.23	18.11	19.54	19.86	18.40	19.88	18.77	20.20	20.51
	3H	19.35	20.68	19.73	21.00	21.37	19.84	21.16	20.22	21.49	21.85
	4H	19.97	21.21	20.37	21.56	21.94	20.44	21.68	20.84	22.03	22.41
	6H	20.44	21.59	20.85	21.95	22.34	20.93	22.08	21.34	22.44	22.84
	8H	20.59	21.68	21.02	22.07	22.47	21.13	22.22	21.55	22.61	23.01
	12H	20.69	21.73	21.12	22.12	22.55	21.29	22.34	21.72	22.72	23.15
4H	2H	18.37	19.61	18.77	19.96	20.34	18.89	20.14	19.30	20.49	20.87
	3H	20.19	21.22	20.60	21.62	22.02	20.59	21.62	21.00	22.02	22.42
	4H	20.93	21.86	21.36	22.27	22.71	21.35	22.27	21.78	22.69	23.13
	6H	21.53	22.33	21.99	22.78	23.24	21.98	22.79	22.44	23.23	23.69
	8H	21.72	22.48	22.19	22.92	23.39	22.24	22.99	22.70	23.43	23.90
	12H	21.87	22.54	22.35	23.02	23.49	22.46	23.13	22.94	23.61	24.08
8H	4H	21.25	22.00	21.71	22.45	22.91	21.62	22.37	22.08	22.81	23.28
	6H	21.97	22.60	22.47	23.09	23.57	22.39	23.01	22.89	23.51	23.98
	8H	22.25	22.81	22.76	23.32	23.81	22.74	23.30	23.25	23.81	24.30
	12H	22.46	22.96	22.97	23.45	24.02	23.05	23.55	23.56	24.04	24.61
12H	4H	21.28	21.96	21.77	22.43	22.91	21.64	22.31	22.12	22.79	23.26
	6H	22.04	22.60	22.55	23.11	23.60	22.44	23.00	22.95	23.51	24.00
	8H	22.37	22.87	22.88	23.36	23.93	22.84	23.34	23.35	23.83	24.40